

10/774,619

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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
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NEWS	6	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	9	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	10	MAR 22	PATDPASPC - New patent database available
NEWS	11	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	12	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	13	APR 04	EMBASE - Database reloaded and enhanced
NEWS	14	APR 18	New CAS Information Use Policies available online
NEWS	15	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAPLUS and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	16	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS
NEWS	17	MAY 23	GBFULL enhanced with patent drawing images
NEWS	18	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
NEWS	19	JUN 06	STN Patent Forums to be held in June 2005
NEWS	20	JUN 06	The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
NEWS	21	JUN 13	RUSSIAPAT: New full-text patent database on STN
NEWS	22	JUN 13	FRFULL enhanced with patent drawing images
NEWS	23	JUN 20	MEDICONF to be removed from STN
NEWS	24	JUN 27	MARPAT displays enhanced with expanded G-group definitions and text labels
NEWS EXPRESS			JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

10/774,619

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 17:26:07 ON 30 JUN 2005

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 17:26:16 ON 30 JUN 2005

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 JUN 2005 HIGHEST RN 853295-05-3

DICTIONARY FILE UPDATES: 29 JUN 2005 HIGHEST RN 853295-05-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10774619.str

```
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS
```

```
=> s 11
SAMPLE SEARCH INITIATED 17:26:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE
```

10/774,619

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 17:26:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 5 ANSWERS
SEARCH TIME: 00.00.01

L3 5 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
FULL ESTIMATED COST 161.33 161.54

FILE 'CAPLUS' ENTERED AT 17:26:48 ON 30 JUN 2005
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FILE COVERS 1907 - 30 Jun 2005 VOL 143 ISS 1
FILE LAST UPDATED: 29 Jun 2005 (20050629/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 2 L3

=> d l4 ibib hitstr abs 1-2

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:49058 CAPLUS
DOCUMENT NUMBER: 139:149666
TITLE: Dealkylation with boron bromide chelates
AUTHOR(S): Keizer, Timothy S.; De Pue, Lauren J.; Parkin, Sean;
 Atwood, David A.

10/774,619

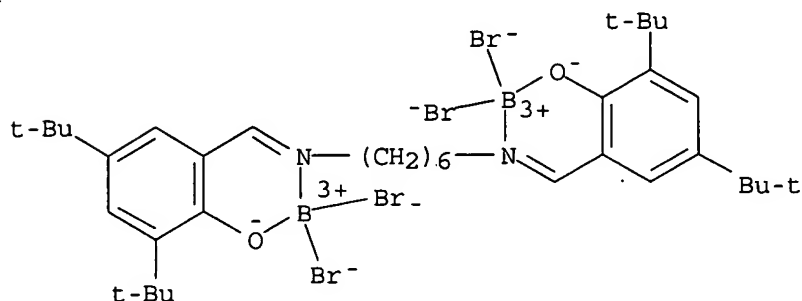
CORPORATE SOURCE: Department of Chemistry, University of Kentucky,
Lexington, KY, 40506-0055, USA
SOURCE: Journal of Organometallic Chemistry (2003), 666(1-2),
103-109
CODEN: JORCAI; ISSN: 0022-328X
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:149666

IT 570414-19-6P

RL: CAT (Catalyst use); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (mol. structure, phosphate dealkylation; preparation, structure and phosphate dealkylation activity of boron bromide Schiff base acidic binuclear chelates)

RN 570414-19-6 CAPLUS

CN Boron, tetrabromo[μ -[[2,2'-[1,6-hexanediylbis[(nitrilo- κ N)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato- κ O]](2-)]di- (9CI) (CA INDEX NAME)

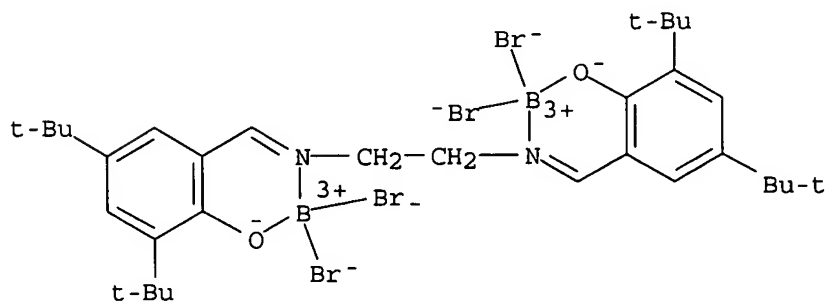


IT 570414-18-5P

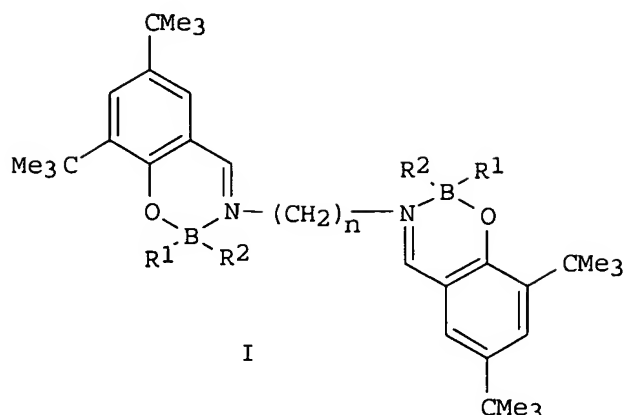
RL: CAT (Catalyst use); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (phosphate dealkylation; preparation, structure and phosphate dealkylation activity of boron bromide Schiff base acidic binuclear chelates)

RN 570414-18-5 CAPLUS

CN Boron, tetrabromo[μ -[[2,2'-[1,2-ethanediylbis[(nitrilo- κ N)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato- κ O]](2-)]di- (9CI) (CA INDEX NAME)



GI



AB Potential two-center Lewis acid compds., bis-salicylimine boron bromide complexes, were prepared and their activity in phosphate dealkylation reaction was examined. Compds. (I) (1-6; 1, 2: R1 = R2 = Br, N = 2, 6; 3-6: R1 = p-tolyl, R2 = Br, n = 2, 3, 4, 6) were prepared by BBr₃ bromination of corresponding methoxy-precursors (I, R1 = R2 = OMe or R1 = p-tolyl, R2 = OMe). Mono-chelate dibromo[2,4-di-tert-butyl-2-(tert-butylimino)methylphenolato-O,N]boron (7) was also prepared from corresponding dimethoxy-complex. These compds. are active towards the dealkylation of alkyl phosphates and are catalytic when stoichiometric amts. of BBr₃ and tri-Me phosphate are introduced to the chelate ligand. All of the compds. were characterized 1H- and 11B-NMR, IR, MS; x-ray crystal structure of 2 is reported.

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:106412 CAPLUS

DOCUMENT NUMBER: 136:309952

TITLE: Catalytic Dealkylation of Phosphates with Binuclear Boron Compounds

AUTHOR(S): Keizer, Timothy S.; De Pue, Lauren J.; Parkin, Sean; Atwood, David A.

CORPORATE SOURCE: Department of Chemistry, University of Kentucky, Lexington, KY, 40506-0055, USA

SOURCE: Journal of the American Chemical Society (2002), 124(9), 1864-1865

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 136:309952

IT 412014-89-2P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and crystal structure of)

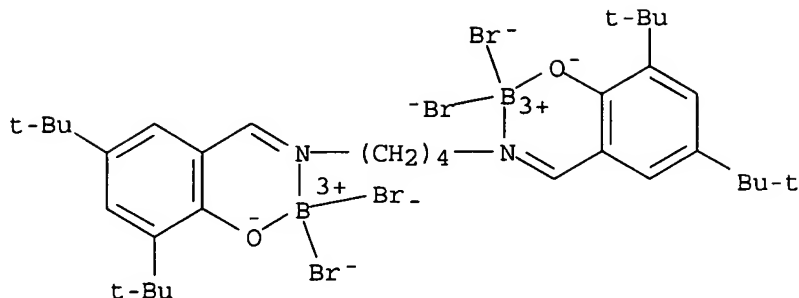
RN 412014-89-2 CAPLUS

CN Boron, tetrabromo[μ-[[2,2'-(1,4-butanediylbis[(nitrilo-κN)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato-κO]](2-)]di-, compd. with methylbenzene (1:2) (9CI) (CA INDEX NAME)

CM 1

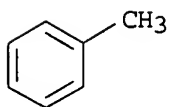
10/774,619

CRN 412014-87-0
CMF C34 H50 B2 Br4 N2 O2
CCI CCS

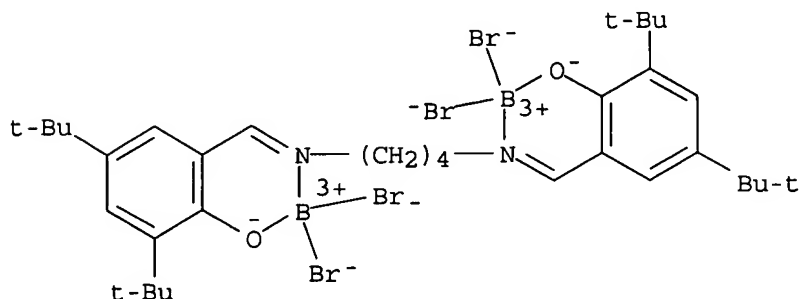


CM 2

CRN 108-88-3
CMF C7 H8



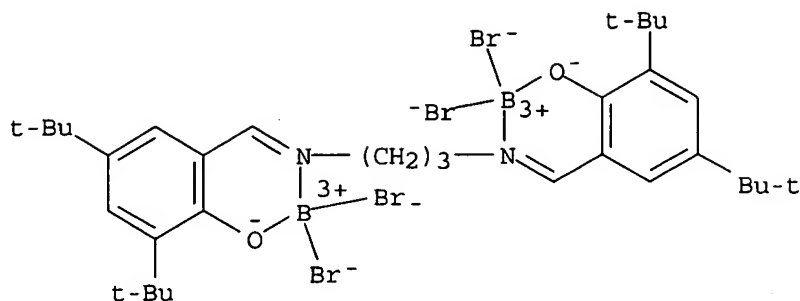
IT 412014-87-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and mol. structure of)
RN 412014-87-0 CAPLUS
CN Boron, tetrabromo[μ-[[2,2'-[1,4-butanediylbis[(nitrilo-
κN)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato-κO]](2-
))]di- (9CI) (CA INDEX NAME)



IT 412014-86-9P
RL: CAT (Catalyst use); RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation, catalyst for dealkylation of phosphates, and reactivity of)
RN 412014-86-9 CAPLUS
CN Boron, tetrabromo[μ-[[2,2'-[1,3-propanediylbis[(nitrilo-
κN)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato-κO]](2-

10/774,619

)]di- (9CI) (CA INDEX NAME)



AB The Salpen(tBu) (N,N'-propylenebis(3,5-di-tert-butyl(2-hydroxy)benzylidenimine)) ligand and its derivs. were used to prepare binuclear boron complexes. These compds. have the formula, L(BBr₂)₂ (L = Salpen(tBu) and Salben(tBu) (N,N'-butylenebis(3,5-di-tert-butyl(2-hydroxy)benzylidenimine))). These are formed from the reaction of the corresponding L[B(OMe)₂]₂ with BBr₃. They represent a new type of binuclear boron compound. These compds. are active toward the dealkylation of many phosphates. Thus, (OMe)₃P(O) is %89 dealkylated in the presence of Salpen(tBu)(BBr₂)₂. They are also catalytically active with a stoichiometric amount of BBr₃ to trimethylphosphate.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
10.78	172.32

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.46	-1.46

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 17:28:09 ON 30 JUN 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal201txs

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 5 MAR 02 GBFULL: New full-text patent database on STN
NEWS 6 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
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NEWS 9 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 10 MAR 22 PATDPASPC - New patent database available
NEWS 11 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 12 APR 04 EPFULL enhanced with additional patent information and new fields
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NEWS 16 APR 28 Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS
NEWS 17 MAY 23 GBFULL enhanced with patent drawing images
NEWS 18 MAY 23 REGISTRY has been enhanced with source information from CHEMCATS
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NEWS 23 JUN 20 MEDICONF to be removed from STN
NEWS 24 JUN 27 MARPAT displays enhanced with expanded G-group definitions and text labels

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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FILE 'HOME' ENTERED AT 19:11:17 ON 30 JUN 2005

=> file caplus
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

10/774,619

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FILE COVERS 1907 - 30 Jun 2005 VOL 143 ISS 1
FILE LAST UPDATED: 29 Jun 2005 (20050629/ED)

New CAS Information Use Policies,¹ enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s chelated borate or borate chelate

9034 CHELATED
61383 BORATE
10673 BORATES
65473 BORATE
(BORATE OR BORATES)
3 CHELATED BORATE
(CHELATED(W) BORATE)
61383 BORATE
10673 BORATES
65473 BORATE
(BORATE OR BORATES)
42713 CHELATE
26602 CHELATES
56625 CHELATE
(CHELATE OR CHELATES)
29 BORATE CHELATE
(BORATE(W) CHELATE)
L1 32 CHELATED BORATE OR BORATE CHELATE

=> s l1 and (halide or halogen or astatine)

148057 HALIDE
123372 HALIDES
214911 HALIDE
(HALIDE OR HALIDES)
103635 HALOGEN
21028 HALOGENS
114256 HALOGEN
(HALOGEN OR HALOGENS)
1587 ASTATINE
2 ASTATINES
1587 ASTATINE
(ASTATINE OR ASTATINES)
L2 0 L1 AND (HALIDE OR HALOGEN OR ASTATINE)

10/774,619

=> s chelate

42713 CHELATE
26602 CHELATES

L3 56625 CHELATE
(CHELATE OR CHELATES)

=> s l3 and (boron or aluminum or gallium or indium or tellurium)

214396 BORON
263 BORONS
214479 BORON
(BORON OR BORONS)
880570 ALUMINUM
297 ALUMINUMS
880632 ALUMINUM
(ALUMINUM OR ALUMINUMS)
281184 GALLIUM
19 GALLIUMS
281184 GALLIUM
(GALLIUM OR GALLIUMS)
181489 INDIUM
11 INDIUMS
181492 INDIUM
(INDIUM OR INDIUMS)
45890 TELLURIUM
14 TELLURIUMS
45893 TELLURIUM
(TELLURIUM OR TELLURIUMS)

L4 4809 L3 AND (BORON OR ALUMINUM OR GALLIUM OR INDIUM OR TELLURIUM)

=> s l4 and (halide or halogen or astatine or fluorine or chlorine or bromine or iodine)

148057 HALIDE
123372 HALIDES
214911 HALIDE
(HALIDE OR HALIDES)
103635 HALOGEN
21028 HALOGENS
114256 HALOGEN
(HALOGEN OR HALOGENS)
1587 ASTATINE
2 ASTATINES
1587 ASTATINE
(ASTATINE OR ASTATINES)
13 FLUORINE
124254 CHLORINE
758 CHLORINES
124742 CHLORINE
(CHLORINE OR CHLORINES)
49140 BROMINE
158 BROMINES
49237 BROMINE
(BROMINE OR BROMINES)
127621 IODINE
194 IODINES
127695 IODINE
(IODINE OR IODINES)

L5 281 L4 AND (HALIDE OR HALOGEN OR ASTATINE OR FLUORINE OR CHLORINE OR BROMINE OR IODINE)

10/774,619

=> s 15 and (ssalen or salpen or salben or salhen)

0 SSALEN

21 SALPEN

15 SALBEN

5 SALHEN

L6 1 L5 AND (SSALEN OR SALPEN OR SALBEN OR SALHEN)

=> s 15 and salen

2669 SALEN

41 SALENS

2676 SALEN

(SALEN OR SALENS)

L7 1 L5 AND SALEN

=> dup rem 16 17

PROCESSING COMPLETED FOR L6

PROCESSING COMPLETED FOR L7

L8 1 DUP REM L6 L7 (1 DUPLICATE REMOVED)

=> d 18 ibib hitstr abs

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2003:18368 CAPLUS

DOCUMENT NUMBER: 138:330730

TITLE: **Boron halide chelate**

compounds and their activity towards the demethylation
of trimethylphosphate

AUTHOR(S): Keizer, Timothy S.; De Pue, Lauren J.; Parkin, Sean;
Atwood, David A.

CORPORATE SOURCE: Department of Chemistry, University of Kentucky,
Lexington, KY, 40506-0055, USA

SOURCE: Canadian Journal of Chemistry (2002), 80(11),
1463-1468

CODEN: CJCHAG; ISSN: 0008-4042

PUBLISHER: National Research Council of Canada

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:330730

AB Salen(t-Bu)H₂N,N'-ethylenebis(3,5-di-tert-butyl(2-hydroxy)benzylidenimine) and its derivs. were used to prepare B compds. L(BCl₂)₂ (L = salen(t-Bu) (1), **salpen**(t-Bu) (2), **salben**(t-Bu) (3), salpten(t-Bu) (4), **salhen**(t-Bu) (5)). These are formed from the reaction of the corresponding L[B(OMe)₂]₂ with BCl₃. In addition to being a new type of B compound, they are also potential two-point Lewis acids. Indeed, they demonstrate Lewis acidic behavior in the dealkylation of trimethylphosphate. All of the compds. were characterized by m.p., elemental anal., ¹H and ¹¹B NMR, IR, MS, and in the case of 2 by x-ray crystallog.

REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

57.10

57.31

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

10/774,619

	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

STN INTERNATIONAL LOGOFF AT 19:20:47 ON 30 JUN 2005